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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,812	01/25/2007	William Stringfellow	QST.P.US0002	8016

7590 11/30/2007
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EXAMINER

BROWN, COURTNEY A

ART UNIT	PAPER NUMBER
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1616

MAIL DATE	DELIVERY MODE
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11/30/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/566,812	Applicant(s) STRINGFELLOW, WILLIAM	
	Examiner Courtney A. Brown	Art Unit 1616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 January 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Priority

This application is a 371 of PCT/US04/25498. Priority to Provisional Applications 60/493,636 and 60/493,637 filed on August 8, 2003 is acknowledged.

Status of the Claims

Applicant's claims are drawn toward agricultural compositions for through bark application to woody plants.

Claims 1- 22 filed on January 30, 2006 are currently pending examination for patentability.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Riego et al. (US 6,040,272) in view of Esposito (US 4,822,407).

Applicant's Invention

Applicant claims a method for applying a fungicide to a tree comprising applying an insecticide or a plant growth regulator composition to the bark periderm of woody plants without mechanically penetrating or piercing the bark of the plant. The insecticide or plant growth regulator composition includes: (a). an insecticide or plant growth regulator; (b). a polyoxyethylene heptamethyl trisiloxane surfactant that is from about 0.003 to 0.05 parts by weight per part of insecticide or plant growth regulator; and (c) water. Applicant additionally claims the composition as stated above with these optional components: (d). a surface active agent such as propylene glycol that is from about 0.0001 to 2 parts by weight; and; (e). solvents selected from the group consisting of alcohols, glycols, and glycol esters that is from about 0.2221 to 2 parts by weight. Applicant also claims a method for applying a fungicide to a tree comprising spraying the insecticide or plant growth regulator composition on the bark periderm (which consist that portion between the root flare and the first branch) 50-75 grams of insecticide or plant growth regulator to six feet of a tree, measured from the base, where the face has a diameter breast height of about six inches and 25-125 grams of the insecticide or plant growth regulator composition to six feet of a tree, measured from the base where the tree has a diameter breast height of about six inches to where it will run off the bark.

***Determination of the scope and the content of the prior art
(MPEP 2141.01)***

Riego et al. disclose a herbicidal composition applied to bark in basal (bark periderm) and dormant stem regions of plants (abstract). Riego et al. disclose a composition that preferably comprises about 5-35% by weight polyoxyethylene heptamethyl trisiloxanes (column 3, lines 6-8 and column 5, line 33); 50-95% of a glycol or glycol ester such as diethylene glycol and propylene glycol (column 3, lines 22-25 and column 5, lines 50-52), and "pour point depressants" (solvents) such as methanol, ethanol, and n-propanol (column 7, lines 46-52). Riego et al. teach that the composition could be applied to the bark of basal stem portions of plants (bark periderm) employing backpack sprayers (column 7, lines 45-52 and column 8, lines 3-5). Additionally, in column 8, lines 49-52, Riego et al. teach applying the composition to the bark from the waist or knee height to ground level, and applying sufficient solution to wet the bark to the point of run-off.

***Ascertainment of the difference between the prior art and the claims
(MPEP 2141.02)***

Riego et al. do not disclose the use of an insecticide in the composition.

Esposito teaches a diluent composition which includes the use of insecticides and is capable of penetrating tree bark and woody plant tissue (abstract). Esposito also teaches employing the mixture using standard spray equipment (column 4, lines 24-25).

Finding of prima facie obviousness

Rationale and Motivation (MPEP 2142-2143)

It would have been obvious to a person having ordinary skill in the art at the time of the invention was made to combine the teachings of Riego et al., and Esposito (US 4,822,407) to devise a method for applying a fungicide to a tree comprising applying an insecticide or plant growth regulator composition to the bark periderm of woody plants without mechanically penetrating or piercing the bark of the plant. One would be motivated to combine these teachings because they both teach a composition used to penetrate the bark of tree using spray application. Additionally, herbicides and insecticides are both classified as pesticides and are used to control organisms which are considered harmful. It would be prima facie obvious to combine these compositions each of which is taught by the prior art to be useful for the same purpose

in order to form a third composition that is to be used for the very same purpose; the idea of combining them flows logically from their having been individually taught in prior art." In re Kerkhoven 206 USPQ 1069, 1073. Thus, combining Riego et al. and Esposito as claimed in the instant invention, sets forth prima facie obvious subject matter

Additionally, it is routine optimization for one of ordinary skill in the art to adjust the amount of ingredients to optimize the desired results. In this case the weight percent ranges of the components of the composition and the application to the tree (to six feet of a tree, measured from the base, where the tree has a diameter breast height of about six inches) are routine optimization.

Conclusion

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR Only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry concerning this communication or earlier communications from the

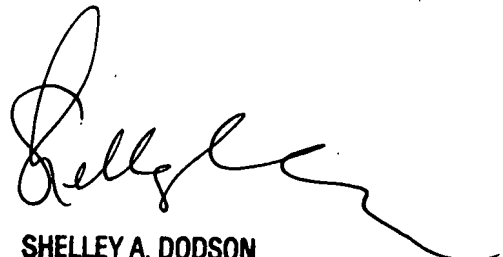
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examiner should be directed to Examiner Courtney Brown, whose telephone number is 571-270-3284. The examiner can normally be reached on Monday-Friday from 8 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, Johann Richter can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Courtney A. Brown



SHELLEY A. DODSON
PRIMARY EXAMINER